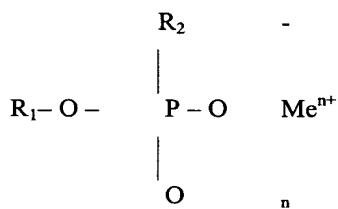
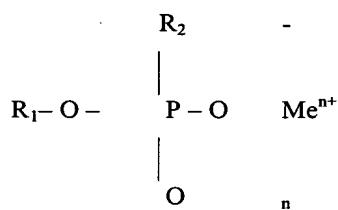


AMENDMENTS TO THE CLAIMS:

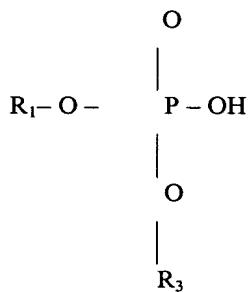
The claims are amended as follows:

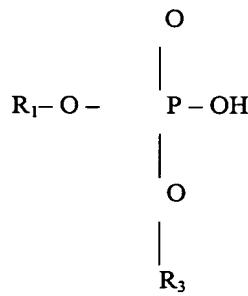
1. (Currently amended) An aqueous solution for preventing and controlling fungalfungicidal and bacterial diseases in plants, said aqueous solution comprising effective amounts of

(a) at least one first composition selected from the group consisting of $(\text{NH}_3)_2\text{HPO}_3$ and compounds having the following formula:

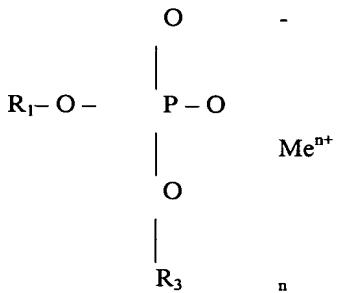
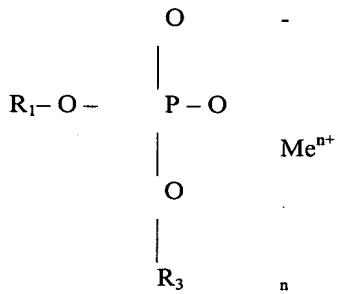


(b) at least one second composition selected from the group consisting of $(\text{NH}_3)_2\text{HPO}_4$, $(\text{NH}_3)_3\text{PO}_4$, $(\text{NH}_4)_2\text{HPO}_4$, $(\text{NH}_4)_3\text{PO}_4$, and compounds having the following formula:





or the formula:



where R_1 is selected from the group consisting of H, K, an alkyl radical containing from 1 to 4 carbon atoms, halogen-substituted alkyl or nitro-substituted alkyl radical, an alkenyl, halogen-substituted alkenyl, alkynyl, halogen-substituted alkynyl, alkoxy-substituted alkyl radical, ammonium substituted by alkyl or hydroxy alkyl radicals;

R_2 and R_3 are selected from the group consisting of H and K;

Me is selected from the group consisting of K, alkaline earth metal cations, an aluminum atom, and an ammonium cation;

n is a whole number equal to between 1 and 3, equal to the valence of Me; and

(c) at least one metal chelate wherein the metal of said metal chelate is a metal selected from the group consisting of iron, zinc, ~~tin~~, manganese, copper and combinations thereof, and the chelate of said metal chelate is selected from the group consisting of pEDDHA, EDDHA, EDDHMA and combinations thereof.

2. (Currently amended) The aqueous solution of Claim 1 wherein the concentration of said metal chelate in said aqueous solution is such that, when said aqueous solution is applied to one acre, about 0.01 to about 2 pounds Almetal of said metal chelate is applied to that acre.

3. (Currently amended) The aqueous solution of Claim 2 wherein the concentration of said metal chelate in said aqueous solution is such that, when said aqueous solution is applied to one acre, about 0.01 to about 0.8 pounds Almetal of said metal chelate is applied to that acre.

4. (Previously amended) The aqueous solution of Claim 1 wherein said metal of said metal chelate is a metal selected from the group consisting of zinc, manganese and copper and combinations thereof.

5. (Previously amended) The aqueous solution of Claim 1 wherein said metal chelate has a solubility equal to about 100% where at least 80 pounds of said metal chelate are dissolved in 100 gallons of water at 50° C.

6. (Currently amended) The aqueous solution of Claim 1 wherein said metal chelate is added ~~as an aqueous solution containing in an amount of metal chelate~~ (on a metal basis) equal to between 1% and 5% by weight of the aqueous solution.

7. (Cancelled)

8. (Cancelled)

9. (Previously amended) The aqueous solution of Claim 4 wherein said metal chelate is selected from the group consisting of Cu-EDDHA, Cu-pEDDHA, Cu-EDDHMA, and combinations thereof.

10. (Cancelled)

11. (Currently amended) The aqueous solution composition of Claim 1 wherein said at least one first salt composition is selected from the group consisting of K₂HP0₃, K₂HPO₃, KH₂PO₃, (NH₃)H₂PO₃, (NH₄)H₂PO₃, and (NH₄)₂ HPO₃; and said at least one second salt composition is selected from the group consisting of K₂HPO₄, KH₂PO₄, K₃PO₄, (NH₄)₂HPO₄, (NH₄)H₂PO₄, and (NH₄)₃PO₄, (NH₃)₂HP0₄, (NH₃)₃P0₄.

12. (Currently amended) The aqueous solution composition of Claim 1 wherein said composition is in an aqueous solution, wherein each said at least one said first composition and at least one said second composition salt is present in solution from about 0.1 millimolar to about 1000 millimolar.

13. (Currently amended) The aqueous solution composition of Claim 12 wherein said composition is in an aqueous solution, wherein each said at least one said first composition and at least one said second composition salt is present in solution from about 20 millimolar to about 200 millimolar.

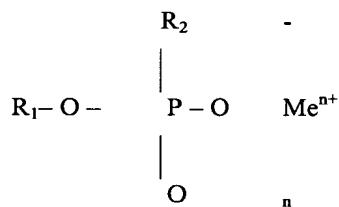
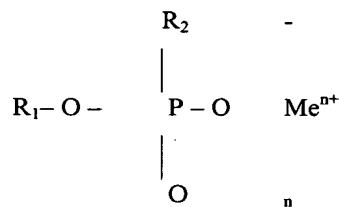
14. (Currently amended) The aqueous solution composition of Claim 1 wherein the weight ratio of said at least one first composition salt to said at least one second composition salt is 1:0.001 to 1:1,000.

15. (Previously amended) The aqueous solution composition of Claim 1 wherein said composition treats or prevents diseases caused by *Phytophthora infestans*.

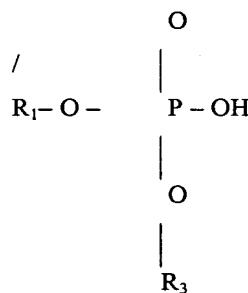
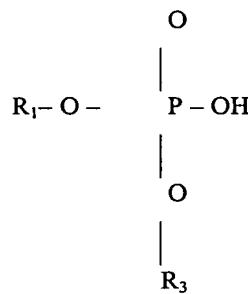
16. (Previously amended) The aqueous solution composition of Claim 15 wherein said composition treats or prevents diseases caused by *Phytophthora infestans*.

17. (Previously amended) The aqueous solution composition of Claim 1 wherein the plants are tomato and potato species.

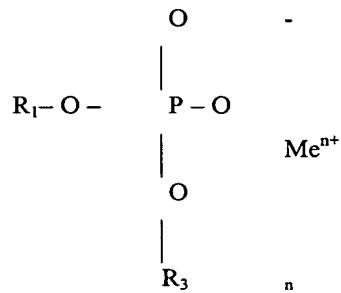
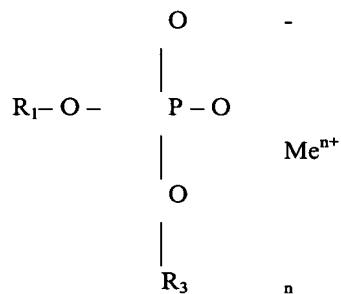
18. (Currently amended) A method for controlling fungal~~fungicidal~~ and/or bacterial disease wherein said method comprises applying to a plant an aqueous solution of fungicidally and/or bactericidally effective amounts of at least one metal chelate, at least one phosphate salt, and at least one phosphonate salt in aqueous solution, wherein said phosphonate salt is selected from a group consisting of $(\text{NH}_3)_2\text{HPO}_3$ and compounds having the following formula:



said phosphate salt is selected from a group consisting of $(\text{NH}_3)_2\text{HPO}_4$, $(\text{NH}_3)_3\text{PO}_4$, $(\text{NH}_4)_2\text{HPO}_4$, $(\text{NH}_4)_3\text{PO}_4$, and compounds having the following formula:



or the formula:



where R_1 is selected from the group consisting of H, K, an alkyl radical containing from 1 to 4 carbon atoms, halogen-substituted alkyl or nitro-substituted alkyl radical, an alkenyl, halogen-substituted alkenyl,

alkynyl, halogen-substituted alkynyl, alkoxy-substituted alkyl radical, ammonium substituted by alkyl or hydroxy alkyl radicals;

R₂ and R₃ are selected from the group consisting of H and K;

Me is selected from the group consisting of K, alkaline earth metal cations, an aluminum atom, and an ammonium cation;

n is a whole number equal to between 1 and 3, equal to the valence of Me; and said metal of said metal chelate is a metal selected from the group consisting of iron, zinc, ~~tin~~, manganese, copper and combinations thereof, and the chelate of said metal chelate is selected from the group consisting of pEDDHA, EDDHA, and EDDHMA and combinations thereof.

19. (Currently amended) The method of Claim 18 wherein the concentration of said metal chelate in said aqueous solution is such that, when said aqueous solution is applied to one acre, about 0.01 to about 2 pounds Almetal of said metal chelate is applied to that acre.

20. (Currently amended) The method of Claim 19 wherein the concentration of said metal chelate in said aqueous solution is such that, when said aqueous solution is applied to one acre, about 0.01 to about 0.8 pounds Almetal of said metal chelate is applied to that acre.

21. (Previously amended) The aqueous solution of Claim 18 wherein the metal of said metal chelate is a metal selected from the group consisting of zinc, manganese and copper and combinations thereof.

22. (Original) The method of Claim 18 wherein said metal chelate has a solubility equal to about 100% where at least 80 pounds of said metal chelate are dissolved in 100 gallons of water at 50° C.

23. (Currently amended) The method of Claim 18 wherein said metal chelate is added ~~as an aqueous solution containing~~ in an amount of metal chelate (on a metal basis) equal to between 1 % and 5% by weight of the aqueous solution.

24. (Cancelled)

25. (Cancelled)

26. (Previously amended): The method of Claim 21 wherein said metal chelate is selected from the group consisting of Cu-EDDHA, Cu-pEDDHA, Cu-EDDHMA, and combinations thereof.

27. (Cancelled)

28. (Currently amended) The method of Claim 18 wherein said first phosphonate salt is selected from the group consisting of K_2HPO_3 , KH_2PO_3 , and $(NH_4)H_2PO_3$, $(NH_3)H_2PO_3$, and said phosphate second salt is selected from the group consisting of K_2HPO_4 , KH_2PO_4 , K_3PO_4 , and $(NH_4)H_2PO_4$, K_3PO_4 , and $(NH_3)H_2PO_4$.

29. (Currently amended) The method of Claim 18 wherein each said phosphonate salt first and said phosphate second salt is are each present in said aqueous solution from about 0.1 millimolar to about 1000 millimolar.

30. (Currently amended) The method of Claim 29 wherein each said phosphonate salt first and said phosphate second salt is are each present in said aqueous solution from about 20 millimolar to about 200 millimolar.

31. (Currently amended) The method of claim 18 wherein the weight ratio of said phosphonate first salt to said phosphate second salt is 1:0.001 to 1:1,000.

32. (Previously amended) The method of claim 18 wherein said aqueous solution treats or prevents diseases caused by *Phytophthora*.

33. (Previously amended) The method of claim 32 wherein said aqueous solution treats or prevents diseases caused by *Phytophthora infestans*.

34. (Original) The method of claim 18 wherein the plants are tomato and potato species.

35. (Currently amended) A method of controlling fungal fungicidal and/or bacterial bactericidal disease in plants comprising applying to the plants in enhanced fungicidally and/or bactericidally effective amounts an aqueous solution composition comprising:

- a.(a) an aqueous solution of H_3PO_3 and KOH, wherein the H_3PO_3 and KOH react in an equilibrium reaction to form potassium phosphonate,
- b.(b) an aqueous solution of monopotassium phosphate and KOH, wherein the monopotassium phosphate and KOH react in an equilibrium reaction to form dipotassium phosphate, and
- c.(c) a metal chelate wherein the metal of said metal chelate is a metal selected from the group consisting of iron, zinc, ~~tin~~, manganese, copper and combinations thereof, and the chelate of said metal chelate is selected from the group consisting of pEDDHA, EDDHA, and EDDHMA and combinations thereof.

36. (Currently amended) The method of Claim 35 wherein the amount of potassium phosphonate in said aqueous solution (a) and the amount of dipotassium phosphate in said aqueous solution (b) is are each present in said composition in an amount from about 0.1 millimolar to about 1000 millimolar.

37. (Currently amended) The method of Claim 35 wherein the weight ratio of potassium phosphonate prepared from solution (a) in said composition to dipotassium phosphate prepared from solution (b) in said composition is 1:0.001 to 1:1,000.

38. (Currently amended) The method of Claim 35 wherein the concentration of said metal chelate in said aqueous solution composition is such that when said aqueous solution composition is applied to one acre, about 0.01 to about 2 pounds Almetal of said metal chelate is applied to that acre.

39. (Previously amended) The method of Claim 35 wherein said metal of said metal chelate is selected from the group consisting of iron, zinc, manganese, copper, and combinations thereof.

40. (Currently amended) A method of controlling fungalfungicidal and/or bacterialbactericidal disease in plants comprising applying to the plants in enhanced fungicidally and/or bactericidally effective amounts an aqueous solution composition prepared by mixing:

- a.(a) an aqueous solution of H_3PO_3 - H_3PO_3 and KOH, wherein the H_3PO_3 and KOH react in an equilibrium reaction to form potassium phosphonate,
- b.(b) an aqueous solution of monopotassium phosphate and KOH, wherein the monopotassium phosphate and KOH react in an equilibrium reaction to form dipotassium phosphate, and
- c.(c) a metal chelate wherein the metal of said metal chelate is a metal selected from the group consisting of iron, zinc, ~~tin~~, manganese, copper and combinations thereof, and the chelate of said metal chelate is selected from the group consisting of pEDDHA, EDDHA, and EDDHMA and combinations thereof.

41. (Currently amended) The method of Claim 40 wherein the amount of potassium phosphonate in said aqueous solution (a) and the amount of dipotassium phosphate in said aqueous solution (b) is are each present in said composition in an amount from about 0.1 millimolar to about 1000 millimolar.

42. (Currently amended) The method of Claim 40 wherein the weight ratio of potassium phosphonate prepared from solution (a) in said composition to dipotassium phosphate prepared from solution (b) in said composition is 1:0.001 to 1:1,000.

43. (Currently amended) The method of Claim 40 wherein the concentration of said metal chelate in said aqueous solutioncomposition is such that when said aqueous solutioncomposition is applied to one acre, about 0.01 to about 2 pounds Almetal of said metal chelate is applied to that acre.

44. (Previously amended) The method of Claim 40 wherein said metal of said metal chelate is selected from the group consisting of iron, zinc, manganese, copper, and combinations thereof.

45. (Currently amended) A method of controlling fungalfungicidal and/or bacterialbactericidal disease in plants comprising applying to the plants in enhanced fungicidally and/or bactericidally effective amounts an aqueous solution composition comprising:

- a.(a) an aqueous solution of H₃PO₃ and KOH, wherein the H₃PO₃ and KOH react in an equilibrium reaction to form potassium phosphonate,
- b.(b) an aqueous solution of dipotassium phosphate, and
- c.(c) a metal chelate wherein the metal of said metal chelate is a metal selected from the group consisting of iron, zinc, tin, manganese, copper and combinations thereof, and the chelate of said metal chelate is selected from the group consisting of pEDDHA, EDDHA, and EDDHMA and combinations thereof.

46. (Currently amended) The method of Claim 45 wherein the amount of potassium phosphonate in said aqueous solution (a) and the amount of dipotassium phosphate in said aqueous solution (b) is are each present in said composition in an amount from about 0.1 millimolar to about 1000 millimolar.

47. (Currently amended) The method of Claim 45 wherein the weight ratio of potassium phosphonate prepared from solution (a) in said composition to dipotassium phosphate prepared from solution (b) in said composition is 1:0.001 to 1:1,000.

48. (Currently amended) The method of Claim 45 wherein the concentration of said metal chelate in said aqueous solution composition is such that, when said aqueous solution composition is applied to one acre, about 0.01 to about 2 pounds Ametal of said metal chelate is applied to that acre.

49. (Previously amended) The method of Claim 45 wherein said metal of said metal chelate is selected from the group consisting of iron, zinc, manganese, copper, and combinations thereof.

50. (Currently amended) A method of controlling fungalfungicidal and/or bacterialbactericidal disease in plants comprising applying to the plants in enhanced fungicidally and/or bactericidally effective amounts an aqueous solution composition prepared by mixing:

- a.(a) an aqueous solution of H₃PO₃ and KOH, wherein the H₃PO₃ and KOH react in an equilibrium reaction to form potassium phosphonate,

- b.(b) an aqueous solution of dipotassium phosphate, and
- e.(c) a metal chelate wherein the metal of said metal chelate is a metal selected from the group consisting of iron, zinc, ~~tin~~, manganese, copper and combinations thereof, and the chelate of said metal chelate is selected from the group consisting of pEDDHA, EDDHA, and EDDHMA and combinations thereof.

51. (Currently amended) The method of Claim 50 wherein the amount of potassium phosphonate in said aqueous solution (a) and the amount of dipotassium phosphate in said aqueous solution (b) ~~is~~are each present in said composition in an amount from about 0.1 millimolar to about 1000 millimolar.

52. (Currently amended) The method of Claim 50 wherein the weight ratio of potassium phosphonate prepared from solution (a) in said composition to dipotassium phosphate prepared from solution (b) in said composition is 1:0.001 to 1:1,000.

53. (Currently amended) The method of Claim 50 wherein the concentration of said metal chelate in said aqueous solution composition is such that when said aqueous solution composition is applied to one acre, about 0.01 to about 2 pounds Almetal of said metal chelate is applied to that acre.

54. (Previously amended) The method of Claim 50 wherein said metal of said metal chelate is selected from the group consisting of iron, zinc, manganese, copper, and combinations thereof.